

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	("20020111459" "20030232273" "5558971"). PN.	US-PGPUB; USPAT	OR	OFF	2006/10/05 12:43
S2	6407	POLYHYDROXYSTYRENE\$10 OR POLY adj HYDROXYSTYRENE\$10 OR POLY adj HYDROXY adj STYRENE\$10 OR POLYHYDROXY adj STYRENE\$10 OR POLYVINYLPHENOL\$10 OR POLYVINYL adj PHENOL\$10 OR POLY adj VINYL adj PHENOL\$10 OR POLY adj VINYLPHENOL\$10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 12:45
S3	902	\$adamantyl\$ and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 12:47
S4	544	\$adamantyl\$ and S2 and (acetyl or ketal )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 12:47
S5	668	\$adamantyl\$ and S2 and 430/270.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 13:37
S6	424	\$adamantyl\$ and S2 and (acetyl or ketal ) and 430/270.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 12:48
S7	1586	S2 and 430/270.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 13:37
S8	744	S2 and 430/270.1.ccls. AND (ACETAL OR KETAL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 13:38
S9	249	S2 SAME (ACETAL OR KETAL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 16:03

## EAST Search History

S10	110	S2 SAME (ACETAL OR KETAL) AND 430/270.1.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 13:40
S11	1586	S2 AND 430/270.1.CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 13:40
S12	0	S2 SAME (ACETAL OR KETAL) same naphthyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 16:03
S13	40	S2 and (ACETAL OR KETAL) same naphthyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 16:43
S14	122	S2 and (ACETAL OR KETAL) same adamantyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 16:44
S15	3	S2 same (ACETAL OR KETAL) same adamantyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 16:46
S16	1	S2 same (ACETAL OR KETAL) same norbornyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 16:46
S17	1	S2 same (ACETAL OR KETAL) same norborn\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 17:05
S18	0	S2 same norbornyloxy\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 17:05

## EAST Search History

S19	192	norbornyloxy\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/05 17:06
S32	1	("6133412").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 17:46
S33	0	("\$ADAMANT\$NEAR100XY").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 17:47
S34	960	ADAMANT\$ AND ( POLYHYDROXYSTYRENE\$10 OR POLY adj HYDROXYSTYRENE\$10 OR POLY adj HYDROXY adj STYRENE\$10 OR POLYHYDROXY adj STYRENE\$10 OR POLYVINYLPHENOL\$10 OR POLYVINYL adj PHENOL\$10 OR POLY adj VINYL adj PHENOL\$10 OR POLY adj VINYLPHENOL\$10)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 19:25
S35	72	ADAMANT\$ SAME ( POLYHYDROXYSTYRENE\$10 OR POLY adj HYDROXYSTYRENE\$10 OR POLY adj HYDROXY adj STYRENE\$10 OR POLYHYDROXY adj STYRENE\$10 OR POLYVINYLPHENOL\$10 OR POLYVINYL adj PHENOL\$10 OR POLY adj VINYL adj PHENOL\$10 OR POLY adj VINYLPHENOL\$10)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/06 19:36
S36	4	("3515552" "3536489" "5348838" "6280897"). PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 19:36
S37	1	("20020156316").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/08 10:25
S38	1	("20020156316").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/08 10:25

10/553,083

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 14:49:00 ON 02 JAN 2007

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 14:49:12 ON 02 JAN 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

STW  
Search  
1/2/07

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Jan 2007 VOL 146 ISS 2

FILE LAST UPDATED: 1 Jan 2007 (20070101/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s jp11002902/pn

L1 1 JP11002902/PN

=> d all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:23513 CAPLUS <<LOGINID::20070102>>

DN 130:146227

ED Entered STN: 12 Jan 1999

TI Radiation-sensitive composition useful as chemically amplified positive-working resist

IN Iwanaga, Shinichiro; Tanabe, Takayoshi; Kobayashi, Eiichi; Ohta, Yoshihisa

PA JSR Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03F007-039

ICS G03F007-004; G03F007-033; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

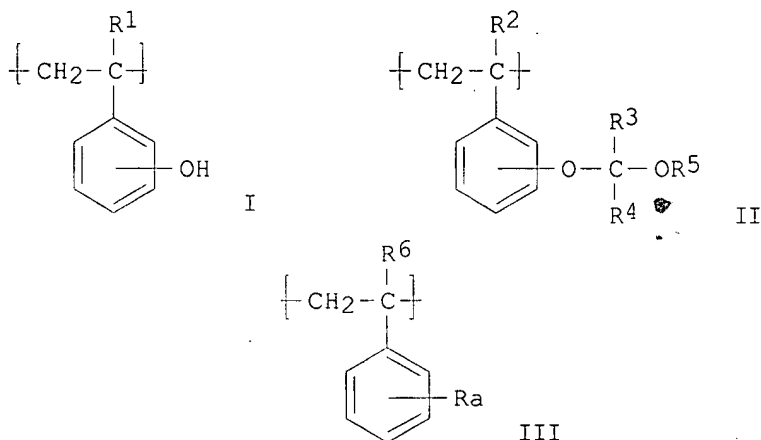
by Primary Examiner Cynthia Hamilton

PI JP 11002902 A 19990106 JP 1997-152412 19970610 <--  
 JP 3709657 B2 20051026  
 PRAI JP 1997-152412 19970610

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 11002902	ICM	G03F007-039
	ICS	G03F007-004; G03F007-033; H01L021-027
	IPCI	G03F0007-039 [ICM,6]; G03F0007-004 [ICS,6]; G03F0007-033 [ICS,6]; H01L0021-027 [ICS,6]

GI



AB The title composition contains (a) a copolymer having repeating units I and II (R1, R2 = H or Me; R3 = H, C1-10 chain alkyl, C3-10 cyclic alkyl, C6-10 aryl, C7-11 aralkyl; R4, R5 = C1-10 chain alkyl, C1-10 halogenated alkyl, C3-10 cyclic alkyl, C6-10 aryl, C7-11 aralkyl, 2 groups of R3-5 may link each other to form a 5- to 7-membered ring), (b) another copolymer having repeating units I and III (R6 = H or Me; Ra = H or C1-10 alkyl), and (c) a radiation-sensitive acid-generator. The composition sensitive toward various kinds of radiations shows stable processability and good storage stability and provides high resolution patterns with good profile.

ST radiation resist hydroxystyrene copolymer; acid generator radiation sensitive resist

IT Resists

(radiation-sensitive; radiation-sensitive resist composition containing hydroxystyrene copolymer derivative and acid generator)

IT 13612-83-4 66003-78-9, Triphenylsulfonium trifluoromethanesulfonate 220006-30-4

RL: TEM (Technical or engineered material use); USES (Uses)

(acid generator; radiation-sensitive resist composition containing hydroxystyrene copolymer derivative and acid generator)

IT 109-92-2DP, Ethyl vinyl ether, ethers with poly(hydroxystyrene)  
 110-87-2DP, ethers with poly(hydroxystyrene) 764-47-6DP, Propyl vinyl ether, ethers with poly(hydroxystyrene) 53746-03-5DP,  
 p-Acetoxystyrene-styrene copolymer, hydrolyzed 59269-51-1DP,  
 Poly(hydroxystyrene), ethers 219690-46-7DP, p-Butoxystyrene-styrene copolymer, hydrolyzed

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material

~~S116582-6~~  
use); PREP (Preparation); USES (Uses)  
(radiation-sensitive resist composition containing hydroxystyrene copolymer  
derivative and acid generator)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	6.12	6.33
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-0.78	-0.78

FILE 'REGISTRY' ENTERED AT 14:50:20 ON 02 JAN 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 1 JAN 2007 HIGHEST RN 916582-62-2  
DICTIONARY FILE UPDATES: 1 JAN 2007 HIGHEST RN 916582-62-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> S 219690-46-7/RN

L2 1 219690-46-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=> D L2 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 219690-46-7 REGISTRY  
CN Benzene, 1-butoxy-4-ethenyl-, polymer with ethenylbenzene (9CI) (CA INDEX  
NAME)

by Primary Examiner Cynthia Hamilton

S11/110763

OTHER CA INDEX NAMES:

CN Benzene, ethenyl-, polymer with 1-butoxy-4-ethenylbenzene (9CI)

OTHER NAMES:

CN p-Butoxystyrene-styrene copolymer

MF (C12 H16 O . C8 H8)x

CI PMS

PCT Polystyrene

SR CA

LC STN Files: CA, CAPLUS

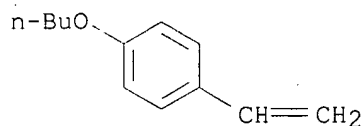
DT.CA CAplus document type: Patent

RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);  
USES (Uses)

CM 1

CRN 105337-03-9

CMF C12 H16 O



CM 2

CRN 100-42-5

CMF C8 H8

H2C=CH-Ph

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 14:49:00 ON 02 JAN 2007)

FILE 'CAPLUS' ENTERED AT 14:49:12 ON 02 JAN 2007

L1 1 S JP11002902/PN

FILE 'REGISTRY' ENTERED AT 14:50:20 ON 02 JAN 2007

L2 1 S 219690-46-7/RN

by Primary Examiner Cynthia Hamilton

~~SECRET~~

SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.40

8.73

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-0.78

STN INTERNATIONAL LOGOFF AT 14:50:45 ON 02 JAN 2007

by Primary Examiner Cynthia Hamilton